

AMENDMENTS TO THE CLAIMS

Listing of the Claims

Claims 1-9. (Canceled)

10. (Currently Amended) An automatic component mounting unit for mounting an electrical component onto a substrate of an electrical assembly, comprising:

a plurality of exchangeable mounting members disposed for mounting said electrical component, each of said mounting members including a respective data storage device, wherein each of said data storage devices stores an amount of mounting process-member data related to a fixed reference mark, characteristic for each of said respective mounting members; and

a control device disposed for controlling said automatic component mounting unit, each of said data storage devices transmitting said amount of mounting process-member data to said control device, wherein said amount of mounting process-member data is utilized so as to adapt each of said mounting members for optimal use during said mounting of said electrical component.

11. (Original) An automatic component mounting unit according to claim 10 wherein each of said data storage devices includes a transponder unit for communicating with said control device in a contactless manner, and wherein said transponder unit is directly attached to each of said mounting members.

12. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting head member.

13. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting feeding member.

14. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting sensor member.

15. (Currently Amended) A system for operating an automatic component mounting unit for mounting an electrical component onto a substrate of an electrical assembly, comprising:

a plurality of exchangeable mounting members installed for mounting said electrical component, wherein each of said members includes a respective data storage device for storing an amount of process-mounting member data related to a fixed reference mark; and

a control device disposed for communicating with each of said data storage devices for processing said amount of process-mounting member data, wherein said control device utilizes said amount of process-mounting member data so as to readily adapt each of said mounting members for optimal use upon installation of each of said mounting members to said automatic component mounting unit.

16. (Currently Amended) An automatic component mounting unit according to claim 10, wherein the mounting process-member data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

17. (Currently Amended) An automatic component mounting unit according to claim 10, wherein said control device receives said amount of mounting process-member data to configure movement and positioning of the plurality of mounting members.

18. (Currently Amended) An automatic component mounting unit according to claim 16, wherein said control device receives said amount of mounting process-member data to configure movement and positioning of the plurality of mounting members.

19. (Currently Amended) A system as claimed in claim 15, wherein said amount of process-mounting member data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

20. (Currently Amended) A system as claimed in claim 15, wherein said control device receives said amount of process-mounting member data to configure movement and positioning of the plurality of mounting members.

21. (Currently Amended) A system as claimed in claim 19, wherein said control device receives said amount of process-mounting member data to configure movement and positioning of the plurality of mounting members.

22. (Currently Amended) An automatic component mounting unit for mounting an electrical component onto a substrate, comprising:

a plurality of exchangeable mounting members disposed for mounting an electrical component, wherein each of said mounting members includes a respective data storage device, adapted to store mounting process-member data related to a fixed reference mark; and

a control device, adapted to control said plurality of mounting members, wherein the mounting process-member data is utilized by the control device so as to adapt each of the mounting members for opticaloptimal use during the mounting of an electrical component.

23. (Previously Presented) The automatic component mounting unit of claim 22, further comprising a mounting head member, including the plurality of mounting members.

24. (Previously Presented) The automatic component mounting unit of claim 23, wherein the mounting head member includes a storage device for storing the mounting process data.

25. (Previously Presented) The automatic component mounting unit of claim 24, wherein the storage device is a transponder, adapted to communicate with the control device in a contactless manner.

26. (Currently Amended) The automatic component mounting unit of claim 22, wherein the mounting process-member data is transferred from a data storage medium.

27. (Currently Amended) The automatic component mounting unit of claim 23, wherein the mounting process-member data is stored on a data storage medium, insertable into at least one of the mounting head member and the control device.

28. (Currently Amended) The automatic component mounting unit of claim 22, wherein the mounting process-member data is stored on a data storage medium, insertable into the control device.

29. (Currently Amended) An automatic component mounting unit according to claim 22, wherein the mounting process-member data includes at

least one of geometrical and positioning data measured relative to a fixed reference mark.

30. (Currently Amended) An automatic component mounting unit according to claim 22, wherein said control device receives said amount of mounting process-member data to configure movement and positioning of the plurality of mounting members.

31. (Currently Amended) An automatic component mounting unit according to claim 27, wherein the mounting process-member data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

32. (Currently Amended) An automatic component mounting unit according to claim 27, wherein said control device receives said amount of mounting process-member data to configure movement and positioning of the plurality of mounting members.